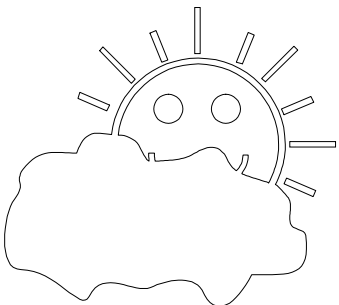


Fact Sheet — Thunderstorms and Lightning



Some thunderstorms can be seen approaching, while others hit without warning. It is important to learn and recognize the danger signs and to plan ahead.

Severe Thunderstorm Watches and Warnings

A severe thunderstorm watch is issued by the National Weather Service when the weather conditions are such that a severe thunderstorm (damaging winds 58 miles per hour or more, or hail three-fourths of an inch in diameter or greater) is likely to develop. This is the time to locate a safe place in the home and tell family members to watch the sky and listen to the radio or television for more information.

A severe thunderstorm warning is issued when a severe thunderstorm has been sighted or indicated by weather radar. At this point, the danger is very serious and everyone should go to a safe place, turn on a battery-operated radio or television, and wait for the "all clear" by the authorities.

Before

Learn the thunderstorm danger signs:

- Dark, towering or threatening clouds
- Distant lightning and thunder

Have disaster supplies on hand:

- Flashlight with extra batteries
- Portable, battery-operated radio and extra batteries
- First aid kit and manual
- Emergency food and water
- Nonelectric can opener
- Essential medicines
- Cash and credit cards

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- Sturdy shoes

Check for hazards in the yard. Dead or rotting trees and branches can fall during a severe thunderstorm and cause injury and damage.



Make sure that all family members know how to respond after a thunderstorm. Teach family members how and when to turn off gas, electricity and water.

Teach children how and when to call 911, police and the fire department, and which radio station to tune for emergency information.

Learn how to respond to a tornado and flash flood. Tornadoes are spawned by thunderstorms and flash flooding can occur with thunderstorms. When a severe thunderstorm warning is issued, review what actions to take under a tornado warning or a flash flood warning.

Develop an emergency communication plan. In case family members are separated from one another during a thunderstorm (a real possibility during the day when adults are at work and children are at school), have a plan for getting back together.

Ask an out-of-state relative or friend to serve as the family contact. After a disaster, it's often easier to call long distance. Make sure everyone knows the name, address and phone number of the contact person.

Contact your local emergency management office or American Red Cross chapter for more information on thunderstorms and lightning.

During

If indoors:

- Secure outdoor objects such as lawn furniture that could blow away or cause damage or injury. Take light objects inside.
- Shutter windows securely and brace outside doors.
- Listen to a battery-operated radio or television for the latest storm information.

- Do not handle any electrical equipment or telephones because lightning could follow the wire. Television sets are particularly dangerous at this time.
- Avoid bathtubs, water faucets and sinks because metal pipes can transmit electricity.

If outdoors:

- Attempt to get into a building or car.
- If no structure is available, get to an open space and squat low to the ground as quickly as possible (If in the woods, find an area protected by low clump of trees. Never stand underneath a single large tree in the open.) Be aware of the potential for flooding in low-lying areas.
- Kneel or crouch with hands on knees.
- Avoid tall structures such as towers, tall trees, fences, telephone lines or power lines.
- Stay away from natural lightning rods such as golf clubs, tractors, fishing rods, bicycles or camping equipment.
- Stay away from rivers, lakes or other bodies of water.
- If you are isolated in a level field or prairie and you feel your hair stand on end (which indicates that lightning is about to strike), drop to your knees and bend forward, putting your hands on your knees. Do not lie flat on the ground.

If in a car:

- Pull safely onto the shoulder of the road away from any trees that could fall on the vehicle.
- Stay in the car and turn on the emergency flashers until the heavy rains subside.
- Avoid flooded roadways.

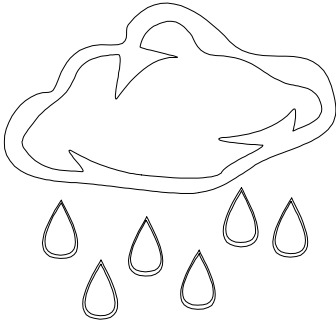
After

Check for injuries. A person who has been struck by lightning does not carry an electrical charge that can shock other people. If the victim is burned, provide first aid and call emergency medical assistance immediately. Look for burns where lightning entered and exited the body. If the strike cause the victim's heart and caused breathing to stop, give cardiopulmonary resuscitation (CPR) until medical professionals arrive and take over.

Remember to help neighbors who may require special assistance: infants, elderly people and people with disabilities.

Report downed utility wires.

Drive only if necessary. Debris and washed-out roads may make driving dangerous.



Estimating the Distance from a Thunderstorm

Because light travels much faster than sound, lightning flashes can be seen long before the resulting thunder is heard. Estimate the number of miles you are from a thunderstorm by counting the number of seconds between a flash of lightning and the next clap of thunder. Divide this number by 5.

Important: You are in danger from lightning if you can hear thunder. Knowing how far away a storm is does not mean that you're in danger only when the storm is overhead.

Hail

Hail is produced by many strong thunderstorms. Hail can be smaller than a pea or as large as a softball and can be very destructive to plants and crops. In a hailstorm, take cover immediately. Pets and livestock are particularly vulnerable to hail, so bring animals into a shelter.

Mitigation

Mitigation includes any activities that prevent an emergency, reduce the chance of an emergency happening, or lessen the damaging effects of unavoidable emergencies. Investing in preventive mitigation steps now, such as installing lightning rods to carry the electrical charge of lightning bolts safely to the ground or purchasing flood insurance, will help reduce the impact of severe thunderstorms in the future. For more information on mitigation, contact your local emergency management office.